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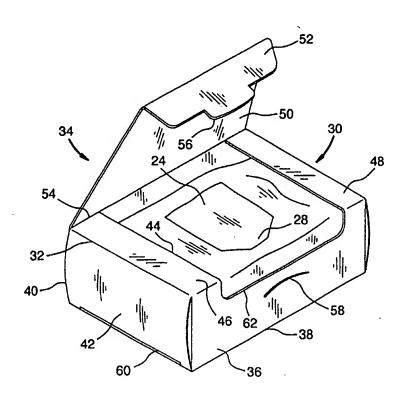
#### Published

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(54) Title: TOWELETTE DISPENSING PACKAGE

#### (57) Abstract

A towelette product is provided comprising a pouch (2) for storing a stack of towelettes and an outer container (30) surrounding the pouch and having walls more rigid than the flexible sheet forming the pouch. A dispensing aperture is formed in a deck panel of the pouch. A seal (24) is adhesively arranged over the dispensing aperture to minimize fluid evaporation and prevent contamination. The top wall of the outer container having an opening with left and right flanking panels, the opening of the container and dispensing aperture (22) of the pouch being aligned to allow towelette removal. A lid (34) is hingedly attached to the outer container. In a second embodiment of the seal for the pouch, a support saddle (64) is provided to overlay and adhere to the deck panel and both side panels. A cut-out portion is hingedly attached near a rear portion of the support saddle and adhesively reclosable and aligned over the dispensing aperture. The support saddle provides rigidity to the respective panels of the pouch against which it adheres.



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#### TOWELETTE DISPENSING PACKAGE

The invention concerns a towelette product and a package for dispensing towelettes.

Fluid impregnated pads, sheets and tissues (collectively defined as towelettes) are established articles of commerce. They are generally utilized for personal hygiene, cosmetic purposes and household cleaning applications. Volatility of the fluid requires packaging which avoids evaporation. Problems arise where a stack of towelettes are packed together in a common container. Dispensing of a single item requires resealability of the container to prevent the remaining articles from drying out. Notable advances in the art include the following disclosures.

- U.S. Patent 4,156,493 (Julius) describes a reclosable dispenser packet with moisture impregnated towelettes stored within a semi-rigid or flexible walled container. One of the embodiments includes a dispensing opening covered by a hinged flap with a pressure sensitive adhesive border on an undersurface for resealability over the opening.
- U.S. Patent 4,790,436 (Nakamura) discloses a resealable dispenser-container for wet tissues. A deformable pouch containing a stack of the tissues is held rigid with the assistance of a shape maintaining member even after most of the tissues have been dispensed. Suitable shape maintaining members include an outer box surrounding the pouch fixed with an adhesive on an undersurface of the box roof which

prevents pouch wall collapse. A second embodiment is a U-shaped frame inserted within the pouch. Both of these solutions present either cost or manufacturing difficulties.

5 U.S. Patent 5,531,325 (Deflander et al.) describes a pouch for storing interleaved tissues with a resealable flap opening. The pouch is housed in a rigid outer container, which in its closed position is sufficiently air-tight to prevent exchange of air between contents of the container and the outside atmosphere. An anti-slip member such as a glue strip is attached to the pouch, and projects through a hole in the bottom of the container to prevent the latter from slipping on a support surface. The air-tight outer container requires considerable plastic material in its construction. Not only is the container heavy ,but the relatively large amount of plastic presents an environmental disposal issue.

Evident from the foregoing selection of technology is the need for improved, more commercially oriented solutions to the pouch deflation problem.

Accordingly, the present invention enables the provision of a towelette product which can dispense towelettes one at a time and be resealable.

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The present invention also further enables the provision of a towelette product which after having dispensed most of a stack of towelettes is substantially as efficiently resealable as in its initial fully towelette filled position.

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The invention also further enables the provision of a towelette product and a related method capable of efficiently cleansing and removing make-up from facial and other skin areas.

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These and other facets of the present invention will be more readily evident from the following summary and detailed discussion.

- Thus, according to a first apsect, there is provided a towelette product which includes:
  - a stack of folded flexible towelettes impregnated with a fluid composition;
- a pouch formed of at least one flexible sheet to contain

  the stack of folded towelettes and containing a dispensing

  aperture through which towelettes are removable and a

  flexible seal with adhesive borders and having a size

  sufficient to resealably cover the aperture securing same to

  prevent evaporation of fluid;
- an outer container formed of top, bottom, front, rear and side walls more rigid than the at least one flexible sheet of the pouch, the top wall having an opening with left and right flanking panels, the opening and aperture being aligned to allow towelette removal, a lid including a lid plate and a lid extension, the lid being hingedly attached to the container which in a closed position overlies the opening and at least a portion of the flanking panels, the lid extension being bent orthogonal to the lid plate and including a tab insertable into a slit within a front wall of the container.

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Further optional features of the outer container include a cut-out portion on the front wall contiguous with the opening and formed above the slit. The cut-out portion allows easier access to the dispensing aperture and enables better manipulation of the flap. When the lid is in a closed position, the lid extension is arranged juxtaposed over the cut-out portion.

folded in a Z-shaped formation, preferably not interleaved.

The Z fold consists of a center panel flanked by upper and lower wing panels. The upper and lower wing panels are substantially of equal width and substantially half of a width of the center panel. Each towelette is folded medially in a direction orthogonal to that of the Z-shaped formation. Advantageously the size of the towelette may range in length from 10 to 40 cm, preferably from 15 to 30 cm, optimally from 18 to 24 cm. The width of the towelette may range from 8 to 30 cm, preferably from 10 to 25 cm, optimally from 15 to 20 cm.

Any kind of material may be employed as a towelette, although certain materials are preferable. Suitable substances include woven and non-woven synthetic or natural fibers. Typical fibers include cellulose, rayon, polyethylene, polypropylene, polyester, cotton, polyamide and combinations thereof. Most preferred are non-woven substrates, especially blends such as rayon/polyester in ratios of 10:90 to 90:10, preferably ratios of 20:80 to 80:20, optimally 40:60 to 60:40. A most useful towelette is a 70:30 rayon/polyester non-woven wipe article.

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Containers of the present invention are preferably cellulosic, especially a paperboard carton. Each of the two opposite side walls of the carton are hingedly attached to a top surface near respective left and right flanking panels.

When swung into an open position, a window appears framed by a pair of opposing shutters. This window allows for removal or introduction of the pouch into the container carton. A closure underflap formed unitarily with and bent at right angles to the side wall engages underneath the shutters for locking the side walls.

Containers of the present invention normally are not formed of rigid plastic nor have lids intended to be air-tight or that prevent free exchange of air between ambient and the inside of the container.

Cleansing and make-up compositions of the present invention normally may contain a surfactant, particularly a foaming yet mild surfactant, water and a make-up removing agent. Amounts of the surfactant may range from 0.5 to 15%. Particularly preferred is a lauroamphoacetate salt, a sarcosinate salt, a cocoamidopropylbetaine, a dimethylbetaine or an alkylpolyglycoside.

Amounts of the make-up removing agent may range from about 0.1 to about 15%. Illustrative agents in this category include polyalkoxy C<sub>12</sub>-C<sub>24</sub> fatty acids such as PEG-40 hydrogenated castor oil, C<sub>2</sub>-C<sub>10</sub> glycols such as hexylene glycol and mixtures thereof. Water may be present at levels ranging from about 5 to about 99%, preferably from about 70 to about 95%. Additionally, the formulation may contain

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botanical or herbal extracts such as chamomile, green tea, ginseng, cucumber, cornflower and aloe vera as well as mixtures thereof.

In a further aspect of this invention, there is disclosed an improved seal arrangement of dimensions which reinforce the pouch against collapse even when emptied beyond 50%. The seal arrangement is shaped as a support saddle with an upper portion flanked at opposite borders by front and rear portions. The upper portion includes a seal which is formed as a cut-out section, preferably hingedly connected on one of its edges to the remaining upper portion, and being alignable over the dispensing aperture of the pouch. The seal is a flexible member with adhesive undersurface borders functioning as a peel and reseal label.

Alternatively the seal may be of a material not originally cut from the upper portion. Front and rear portions are bent at from 60 to 120° angle relative to a plane of the upper portion. Most preferably the angle is about 90°. Undersurfaces of the front and rear portions as well as the top portion must adhere to the pouch at respective outer surfaces of the deck and side panels. Adhesive, sonic welding or a pressure applied hot seal insure strong attachment of the saddle around the pouch.

The objects, features and embodiments of this invention will now be further described in more detail by way of examp[le only with reference to the accompanying drawings, in which:

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- Fig. 1 is a front elevational view of the pouch containing towelettes according to the present invention;
- Fig. 2 is a front elevational view of the pouch, shown in
   Fig. 1, within an outer rigid container with lid in an open position;
  - Fig. 3 is a front elevational view of the container and pouch shown in Fig. 2 with lid in a closed position;

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- Fig. 4 is a front elevational view of the pouch shown in Fig. 1 with the seal being replaced by a U-shaped support saddle;
- Fig. 5 is a front elevational view of the saddle of Fig. 4 but excluding the pouch;
  - Fig. 6 is a top plan view of Fig. 5 but in a flattened configuration;

- Fig. 7 is a top plan view of a non-folded towelette dispensable from the pouch;
- Fig. 8 is a top plan view of the towelette shown in Fig. 7 in folded-over position; and
  - Fig. 9 is a cross-sectional view of the folded towelette as shown in Fig. 8.

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According to the present invention and with reference to the figures, a stack of folded flexible towelettes are packaged within a flexible walled pouch 2. Fig. 1 best illustrates the pouch. It features a deck panel 4, a floor panel 6 and a pair of side panels 8, 10 parallel to one another. The relationship of deck/floor panels to the side panels are substantially orthogonal. Ordinarily there will not be sharp edges 12. This is especially so when the package is empty or emptied of towelettes.

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In fact, the pouch may originate as an elongate cylinder. Only upon being filled with a rectangular stack of the towelettes does the cylindrical wall take on a rectangular shape with distinct panels. The pouch further includes a pair of end panels 14, 16 which along a median section 18, 20 are sonically, heat, adhesively or otherwise sealed with a crimp pattern being shown. A similar type of crimped seal (not shown) may be found along the floor panel. A dispensing aperture 22 is cut into the deck panel of the pouch. Over this aperture is a seal 24 consisting of a flexible flap with adhesive borders 26. Along a front edge of the dispensing aperture is a seal tab 28 not adhesively attached to the pouch. The seal tab functions as a grip for opening seal 24 to allow dispensing of a towelette.

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Fig. 2 best illustrates outer container 30 within which is placed the pouch. The outer container is preferably a paperstock material more rigid than the flexible sheet material forming the pouch. Among the functions of the outer container is as a corset preventing the panels of the pouch from slouching as the form holding stack of towelettes

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becomes diminished. Another function for the outer carton is to allow a top wall 32, and most especially a lid 34 to bear advertising (including brand name, designation of pouch contents and pictorial). Along a retail shelf, an elongate front wall 36 of the outer container will rest on the shelf so that the top wall and lid are vertically facing customers.

Outer container 30, shown in the form of a carton, not only includes a top wall 32 and front wall 36 but also a bottom wall 38, a rear wall 40 and a pair of side walls 42. Top wall 32 has an opening 44 defined by left and right flanking panels 46, 48. Opening 44 is aligned with seal 24 and dispensing aperture 22 to allow ready opening of the seal and removal of towelettes through the aperture.

Lid 34 consists of a lid plate 50 and a lid extension 52. The lid is hingedly attached to an edge 54 of the outer container top wall 32. Hinged edge 54 is perforated to provide an option for tearedly removing the lid.

Fig. 3 illustrates the lid in a closed position overlying the opening and at least a portion of the panels. Extension 52 is bent orthogonally to the lid plate 50 and includes a tab 56 insertable into a slit 58 formed within front wall 36 of the container. Each of the side walls 42 are hingedly connected to top wall 32. On an end distant from the hinged attachment of side wall 42 is an underflap 60 which is bent parallel to the bottom wall.

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The towelette product of the present invention is most conveniently assembled by pre-forming the pouch and inserting same into a pre-assembled outer container by sliding the pouch through the window of an opened side wall.

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- Thereafter the side wall is folded along its hinged border with the top wall followed by folding of the underflap which is inserted perpendicularly through the window toward an interior of the carton.
- 10 A cut-out portion 62 is formed on the front wall contiguous with the opening 44. The cut-out portion has a span length approximately equal to a parallel span length defining a rear most border of the opening.
- 15 Fig. 4 best illustrates the pouch with a second, preferred embodiment of seal 24. A support saddle 64 is provided with an upper portion 66 flanked at opposite borders by a front portion 68 and a rear portion 70. Seal 24 is unitarily formed as the support saddle 64.

- Fig. 6 illustrates support saddle 64 prior to front and rear portions being bent into the saddle. Prior to application around the pouch, the support saddle is die-cut to achieve perforations outlining the seal except along a rear border.
- 72 which lies along an upper edge of the rear portion. Rear border 72 functions as a hinge for seal 24.
- Fig. 4 illustrates application of the support saddle 64 around pouch 2. Adhesives, sonic welding and/or heat seals 30 marry undersurfaces of the support saddle to the upper surfaces of the deck and side panels. The support saddle

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must be oriented to arrange seal 24 directly over dispensing aperture 22. Front portion 68 and rear portion 70 of the support saddle extend at least half-way and preferably more than 80% down a depth of respective side panels 8, 10. Width W preferably has a distance approximately 80%, preferably approximately 60% but optimally approximately 30% a width W' that of the deck panel 4.

Fig. 7 illustrates a towelette 74 showing a fold line 76, an upper wing panel 78 and a center panel 80 to which the upper wing panel is unitarily attached. Upper wing panel 78 has a width approximately half that of the center panel 80. Fig. 8 illustrates towelette 74 folded over along the fold line 76.

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Fig. 9 in cross-section illustrates layer-wise from top to bottom the upper wing panel 78, the center panel 80, a lower wing panel 82, and then another section of each of the lower wing panel 82, the center panel 80 and the upper wing panel 78.

The foregoing description illustrates selected embodiments of the present invention. In light thereof, various modifications would be suggested to one skilled in the art, all of which are within the spirit and purview of this invention.

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## CLAIMS

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- 1. A towelette product comprising:
- a stack of folded flexible towelettes impregnated with a
  5 fluid composition;
  - a pouch formed of at least one flexible sheet to contain the stack of folded towelettes and containing a dispensing aperture through which towelettes are removable and a flexible seal with adhesive borders and having a size sufficient to resealably cover the aperture securing same to prevent evaporation of fluid;
  - an outer container formed of top, bottom, front, rear and side walls more rigid than the at least one flexible sheet of the pouch, the top wall having an opening with left and right flanking panels, the opening and aperture being aligned to allow towelette removal, a lid including a lid plate and a lid extension, the lid being hingedly attached to the container which in a closed position overlies the opening and at least a portion of the flanking panels, the lid extension being bent orthogonal to the lid plate and including a tab insertable into a slit within a front wall of the container.
- 2. The product according to claim 1 wherein the towelette is folded in a Z-shaped formation having a center panel and upper and lower wing panels, the wing panels each being of about equal width and about half of a width of the center panel.

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3. The product according to claim 2 wherein the towelette is folded medially in a direction orthogonal to that of the Z-shaped formation.

5 4. A package for storing and dispensing towelettes comprising:

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- a pouch formed of at least one flexible sheet to contain a stack of folded towelettes, the pouch being defined by a deck panel, a floor panel opposite the deck panel and a pair of opposing side panels, the deck panel including a dispensing aperture through which towelettes are removable; and
- a support saddle defined by an upper portion, a front portion and a rear portion, the upper portion separating the front and rear portions, the upper portion including a seal hingedly attached near an upper edge of the rear portion and adhesively sealed in a closed position against the upper portion of the pouch, the front and rear portions extending downward along an outer surface of each of the front and rear portions adhesively attached thereto thereby supporting the pouch against collapse as the stack of towelettes within the pouch diminishes.
- 5. The package according to claim 4 wherein the support saddle is formed of a material different than materials forming the panels of the pouch.
  - 6. The package according to claim 5 wherein the materials of the support saddle are more rigid than the materials forming panels of the pouch.

7. The package according to any of claims 4-6 wherein the pouch returns to an original cylindrical shape after being emptied of the stack of towelettes.

Fig.1.

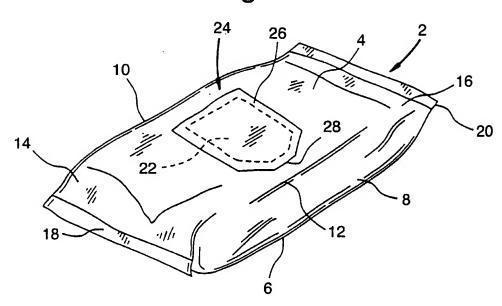
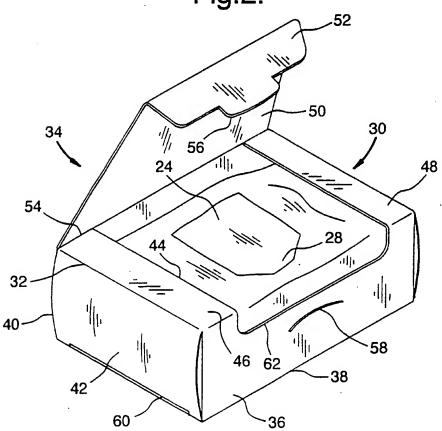
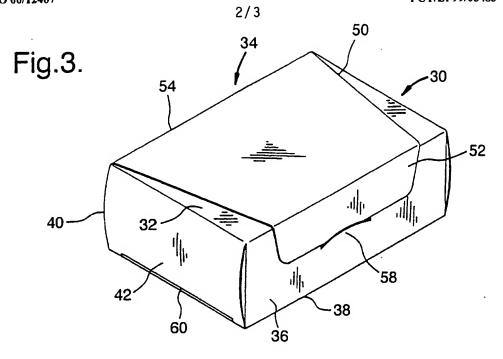
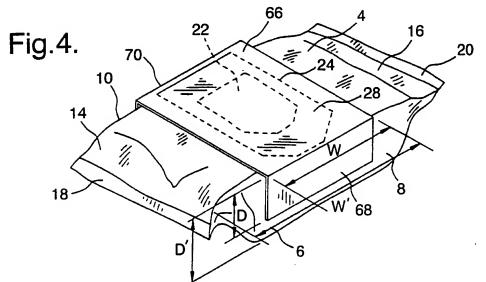
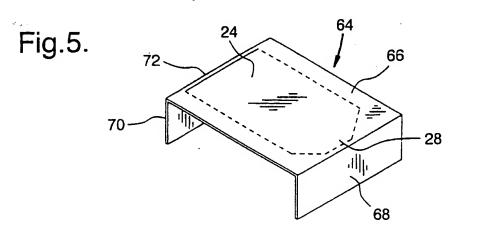


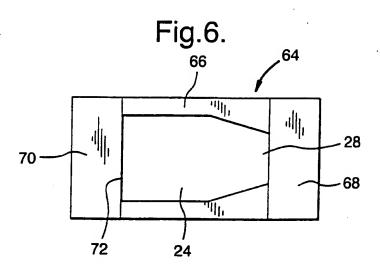
Fig.2.

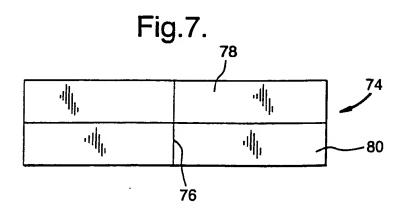


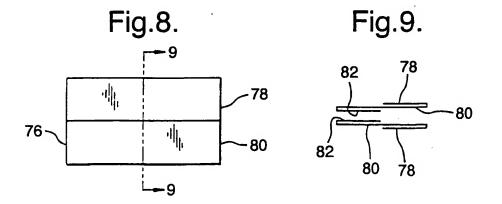












### INTERNATIONAL SEARCH REPORT

nal Application No Inter PCT/EP 99/05483

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 865D77/02 865D 865D83/08 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) B65D A47K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 4-7 X US 4 790 436 A (NAKAMURA KENJI) 13 December 1988 (1988-12-13) cited in the application column 3, line 65 -column 9, line 60 figures 1-13 Y 1 EP 0 459 110 A (KLOECKNER PENTAPACK) Υ 4 December 1991 (1991-12-04) column 5, line 43 -column 6, line 29 figures 1-7 2,3 US 5 516 000 A (FREIBURGER SARAH J M ET Α AL) 14 May 1996 (1996-05-14) column 4, line 30 -column 4, line 36 figure 7 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 06/12/1999 17 November 1999 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,

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# INTERNATIONAL SEARCH REPORT

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(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	I Roi	evant to claim No.
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Hei	Byant to older to
',A	FR 2 772 009 A (GUIBERT DENIS) 11 June 1999 (1999-06-11) page 12, line 16 -page 12, line 32 figure 11		2,3
	US 5 540 332 A (CESCO-CANCIAN ANNAMARIA ET AL) 30 July 1996 (1996-07-30) column 5, line 15 -column 5, line 27 figures 1-4		2,3
		-	
	*		

# INTERNATIONAL SEARCH REPORT

Interi mai Application No
PCT/EP 99/05483

	atent document d in search repor	t	Publication date		atent family member(s)	Publication date
US	4790436	· A	13-12-1988	AT	50226 T	15-02-1990
				AU	593358 B	08-02-1990
				AU	7468587 A	24-12-1987
				CA	1292451 A	26-11-1991
				EP	0251103 A	07-01-1988
				GR	3000455 T	28-06-1991
				HK	94594 A	16-09-1994
•				JP	2074640 C	25-07-1996
				JP	7102868 B	08-11-1995
				JP	63152577 A	25-06-1988
				JP	2780931 B	30-07-1998
				JP	8113268 A	07-05-1996
				KR	9500593 B	26-01-1995
EP	0459110	Α	04-12-1991	DE	4023043 A	05-12-1991
US	5516000	Α	14-05-1996	AU	4406896 A	19-06-1996
				CA	2207384 A	06-06-1996
				WO	9616880 A	06-06-1996
				ZA	9509616 A	29-05-1996
FR	2772009	A	11-06-1999	AU	1567599 A	28-06-1999
				WO	9929589 A	17-06-1999
				FR	2772011 A	11-06-1999
US	5540332	Α	30-07-1996	NONE		